



Increasing Screening for Social Drivers of Health (SDoH) UCSF Pediatric Diabetes Program

T1DX-QI November Learning Session

Quality Improvement Team:

Angel Nip, MD Jenise Wong, MD PhD Barbara Liepman RN MS CDCES CHWC November 11, 2024 UCSF

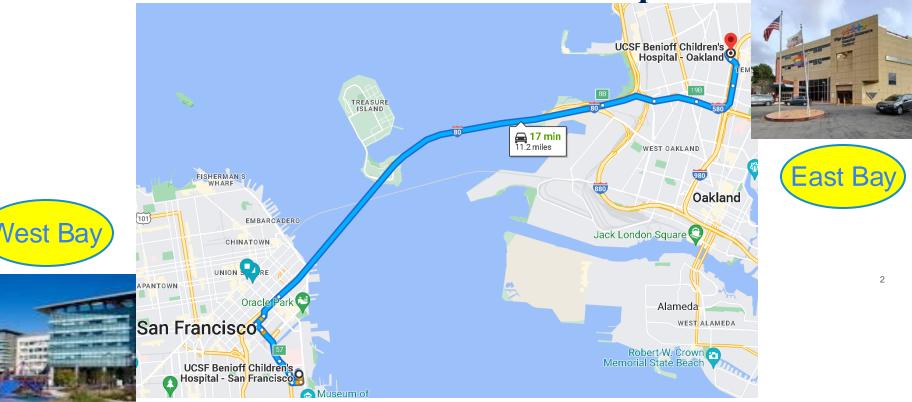




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Clinic	Multidisciplinary Team	Volume and Demographics	Contacts
UCSF (pediatric) Benioff Children's Hospitals	 24 attending physicians (16 provide diabetes care, ~7 FTE) 	Volume150-200 newly diagnosedT1D patients seen annually	West Bay lead Jenise Wong, MD PhD
Locations2 main campuses (San Francisco and Oakland)	6 fellows (1 med/peds)1.2 NP (for diabetes)6 RN/CDCESs	 ~1600 established T1D and ~420 T2D patients 	East Bay lead Angel Nip, MD
6 satellite clinics	 3.6 dieticians/CDCESs 2.5 social workers 1 psychologist (pending) 1 transition coordinator LVNs MAs 	 Demographics 53% with government insurance (40% in SF, 63% in Oakland) 30% Latinx, 9% Black, 7% Asian American/Pacific 	Quality Improvement Advisor, Pediatric Diabetes Barbara Liepman, RN MS CDCES
	Office Assistants	Islander	



UCSF Benioff Children's Hospitals

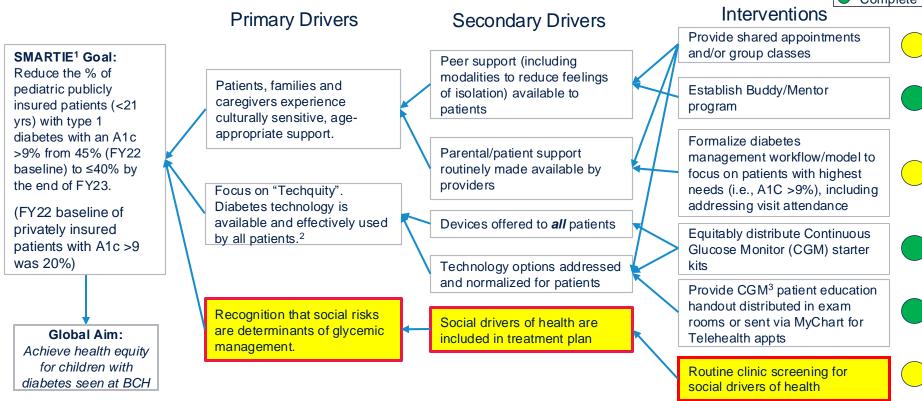




Selected Key Drivers FY23 – Countermeasures & Learnings

Not Started In Progress Complete

UCSF Benioff Children's Hospitals



Updated 7/27/2023

SDoH (Social Drivers of Health) Screening Project FY24

- SMART GOAL: Increase annual screening rates for SDoH [food insecurity, transportation] for patients with diabetes seen Cross-Bay using Screening Tools in APeX from an 11% FY23 baseline (4th quarter average) to >50% by the end of the last quarter of FY24 (4th quarter average).
- GLOBAL AIM: (Secondary Impact): Address SDOH to improve engagement with diabetes care and medical outcomes



Project Charter

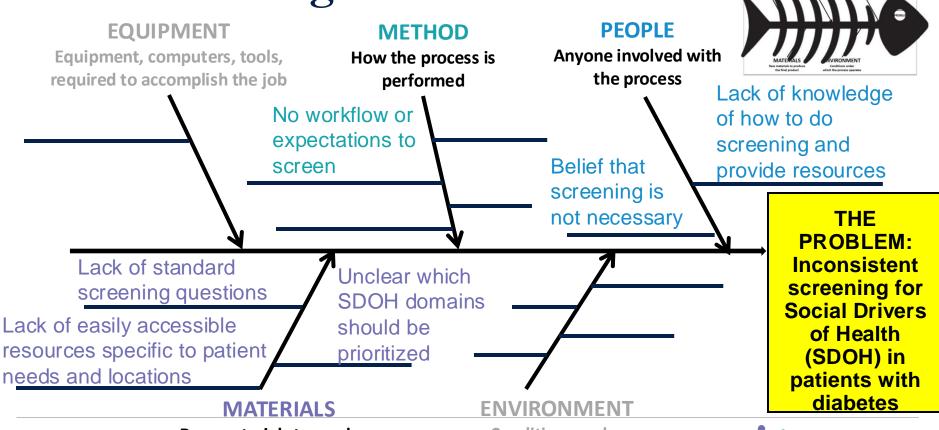
- Project Name
- Charter Date
- SMART GOAL/Global Aim
- Problem Statement and Business Case



- Project Timeline/Key Milestones
- Project Team
- Project Scope
- Project Measures



Fishbone Diagram



Feb 24, 2023 Revised Dec 20, 2023 Raw materials to produce the final product

Conditions under which the process operates



UCSF Benioff Children's Hospitals

Measurement/ Data Collection Plan



 General Report: number of patients screened per month out of all total eligible visit encounters (virtual and in-person)

 Project Report: number of patients screened per month out of total eligible visit encounters (in-person only)



Questionnaire and Resources

Available in English, Spanish, Russian, Simple and Traditional Chinese



Patient Label

Date:

FOOD and TRANSPORTATION SCREENING QUESTIONNAIRE

We believe that everyone deserves access to resources. It is especially important for people to have enough food and reliable transportation when managing diabetes care. If needed, we are here to assist with finding more support.

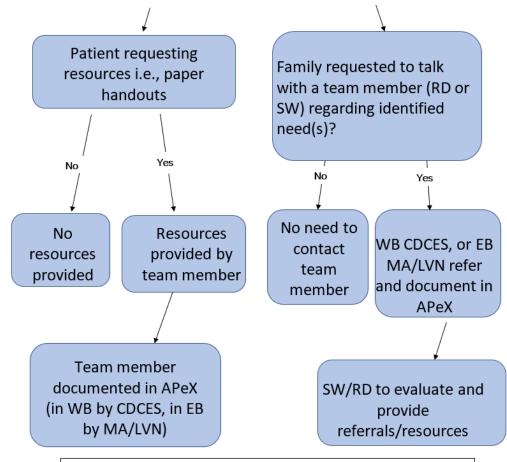
Please answer the following questions to help us better understand your current situation.

Food and Nutrition Resources







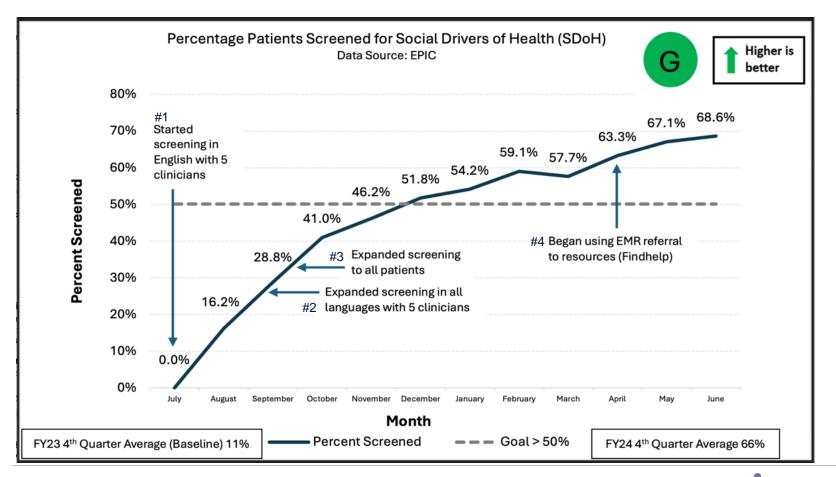


^{*}Food insecurity responses: never true, sometimes true, often true, chooses not to answer
*Transportation: Yes, no, chooses not to answer

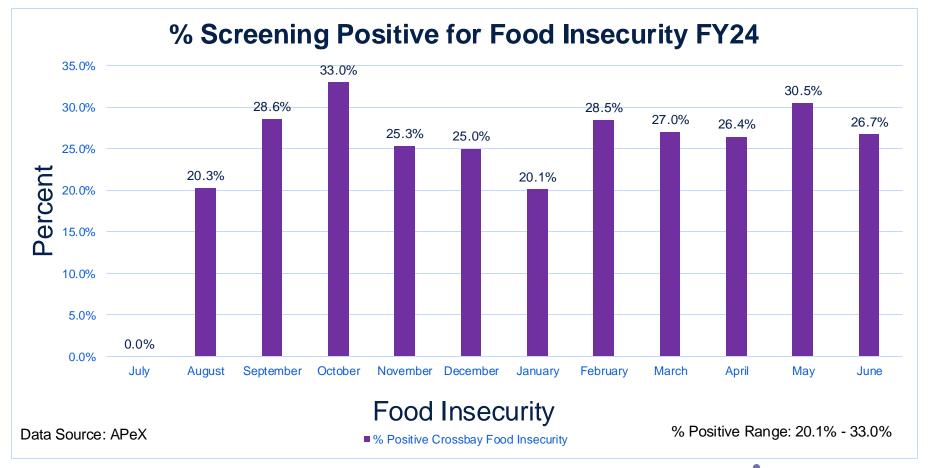


Process Map PDSA #1: A Tale of Two Cities



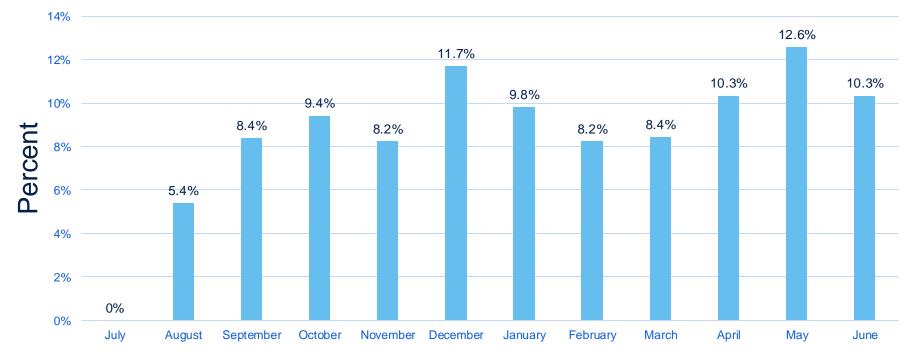








% Screening Positive for Transportation Barriers FY24



Transportation Barriers

Data Source: APeX Positive Crossbay Transportation

% Positive Range: 5.4% - 12.6%



SDoH Goal and Interventions for FY25



FY25 Goal: Increase annual screening rates for SDoH

[food insecurity, and transportation] from a FY24 baseline of 46.3% to > 75% by the end of FY25.

Potential Future Screening Interventions:

- Decrease Frequency of Screenings
- Additional Domains
- MyChart

- Telehealth visits
- Satellite clinics
- Welcome Application



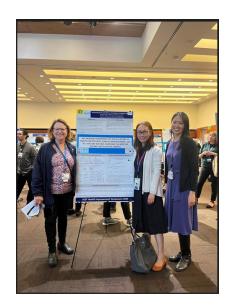
SDoH Taskforce Members

West Bay

- Jenise Wong MD PhD
- Katie Hynes RD, CDCES
- Andrea Nunez SW
- Nicole Rotter PNP, CDCES

East Bay

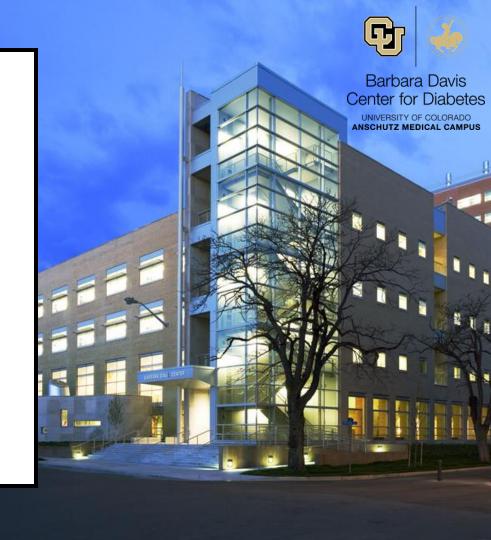
- Angel Nip MD
- Mackenzie Allen RD
- Rocel Gamiao LCSW
- Yanming Jiang RD, CDCES
- Lauren Kelly MSW



Full-Scale Launch of Eating Disorder Screening at a Large Pediatric Diabetes Clinic

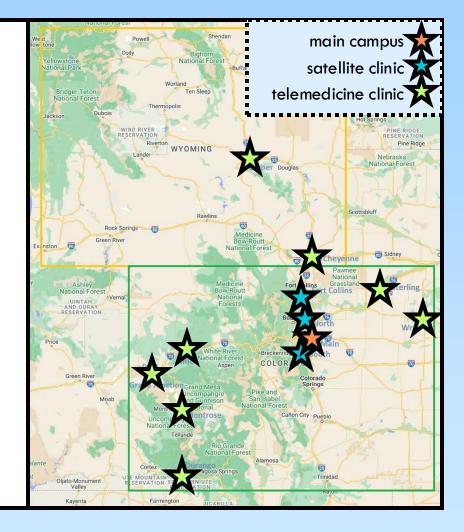
Claire Zimmerman; Rebecca Campbell, BS; Ellen Fay-Itzkowitz, LCSW, CDCES; Alexander Meyer, BS; Bailey Tanner, BS; Holly K. O'Donnell, PhD; G. Todd Alonso, MD

Barbara Davis Center for Diabetes,
University of Colorado Anschutz Medical Campus



Background

- Main campus: 4,000 T1D patients
 - 12,000 visits annually
- 3 satellite clinics
- Telemedicine









Background cont'd

- Routine screening for disordered eating recommended for people with type 1 diabetes (ADA, ISPAD)
- Disordered eating behaviors can lead to severe medical complications
- Clinical pilot in 2023

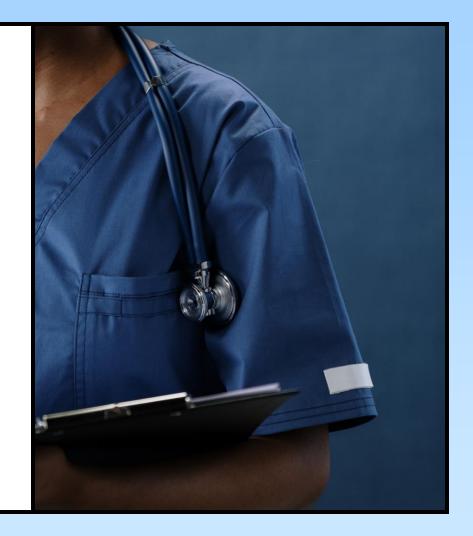




Objectives

 Use quality improvement methods to scale up disordered eating screening at four pediatric diabetes clinic locations

 Utilize Disordered Eating Problem Survey-Revised (DEPS-R) to assess patients ≥12 years old at least once per year at in-person visits









Methods

- Bi-weekly multidisciplinary team meetings comprised of psychology, endocrinologists, a patient navigator, Ql coordinator, dietitian, social worker, and medical assistant
- Training provided at staff meetings and via email

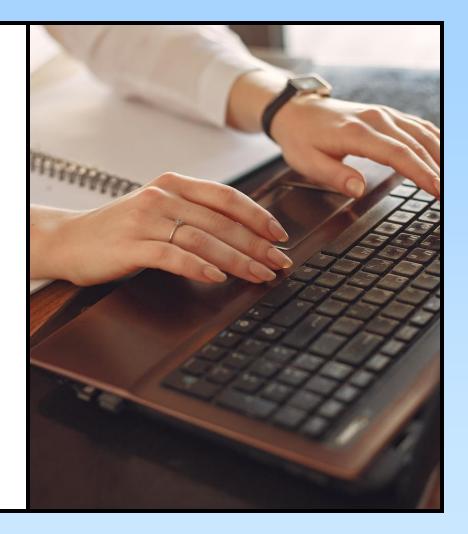




Methods cont'd

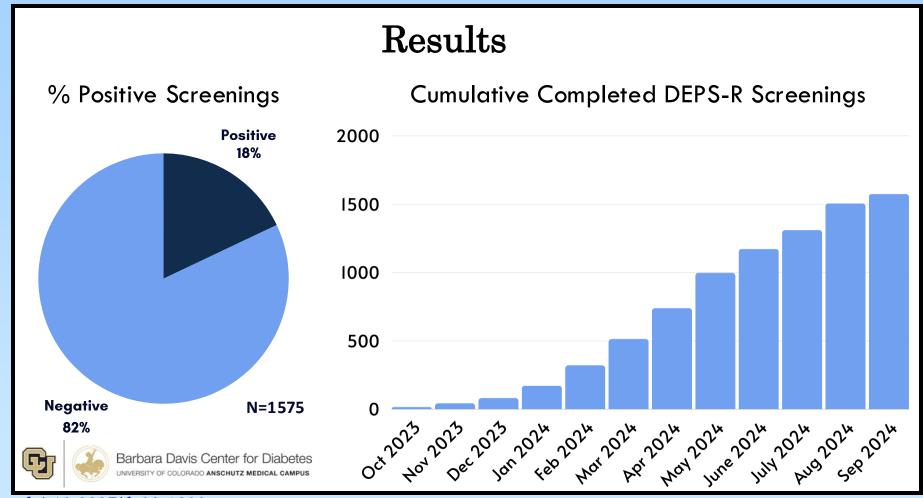
- Began with surveys on REDCap with staff entering data into EMR

 Patients use tablet linked to EMR.
- Automated template appeared in providers' notes with results and next steps
- Positive screening results automatically add referral recommendations



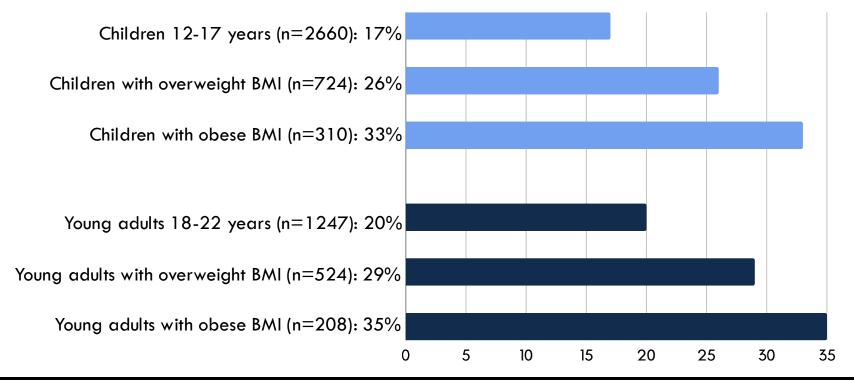






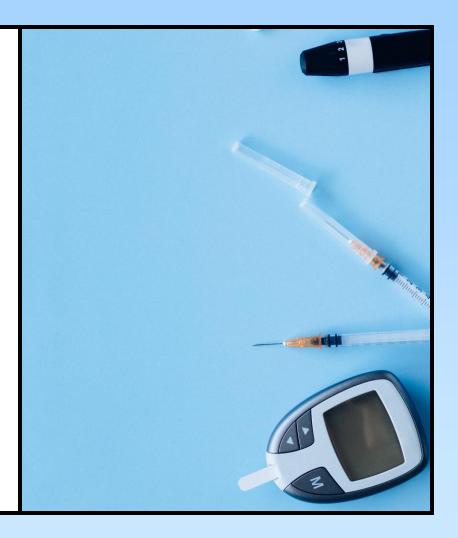
Results cont'd

Adults and patients with overweight/ obesity more likely to score positive



Conclusions

- Disordered eating is common in youth and young adults
- Automated screening processes improve screening rates
- Providers need to be trained to handle positive scores- emphasize validate and refer
- Patients with positive scores need to be referred for care







Thank you!

Questions?

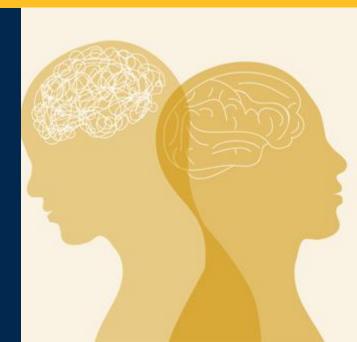




Improving Depression Screening Rates among Adolescents with Type 1 Diabetes using Limited Clinical Resources

Samantha Jimenez, MD; Stephanie Crossen, MD, MPH; Mia Silva, BS; Amber Lao, CMA; Sarah Woods, NP; Rachael Lee, NP; Stephanie Christensen, MD; Shelby Chen, MD; Nicole Glaser, MD; Caroline Schulmeister, MD

Department of Pediatric Endocrinology & Diabetes



Background

Care Team	Patient Population
7 Pediatric Endocrinologists 1 PA-C/RD/CDCES 3 Fellows 3 RN/CDCES 1 RN 2 RD/CDCES 2 MA "diabetes navigators" 1 SW	 ~650 patients with T1D 60% publicly insured 23% Latino 63% White, 10% Black, 7% Asian, 4% Native American, 16% Other Race ~70 new T1D diagnoses/year Large geographic area served >30 counties in CA + western NV + southern OR



Background



Youth with T1D are at an increased risk of elevated self-reported depressive symptoms compared to peers with prevalence rates ranging from 17% to 63%



Screening for symptoms of depression in children aged 12 and above using validated tools should be done at the initial visit, at periodic intervals and when there is a change in disease, treatment, or life circumstance (ISPAD)



Low baseline screening rates of depression in our clinic



No formal screening process in place





AIM

By August 1, 2024, increase annual depression screening from 23.1% to 70% for patients between the ages of 12 and 18 years old with T1D seen at UC Davis.



Interventions

Key Drivers

Consistent method for screening with objective referral criteria

Seamless integration into clinic workflow

Acceptance of psychosocial screening in diabetes clinic from families, staff, and providers

Adequate social work and psychology referral resources to respond to positive screens

AIM

By August 1, 2024, increase annual depression screening from 23.1% to 70% for patients between the ages of 13 and 18 years old with T1D seen at UC Davis.



Use a validated screening process (PHQ2/PHQ9)

Use MyChart messaging for initial screening

Implementation of iPads to automatically upload to chart

Involvement of clinic staff, patients and providers in process design

Develop yearly screening initiative to streamline

RN pre visit planning

Develop process to identify individuals not captured in summer screen

Develop Smartform with report to track screening

Develop a policy regarding handling of scores if SW not available

Increase in referrals to justify additional SW

PDSA #1: ANnual Dlabetes Screening Visit (ANDI)



Two weeks in June & July 2023 - T1D clinic visits only for all ages



Paper PHQ-2 provided on arrival, if scored >3 completed PHQ-9



All screening labs ordered



Seen by physician, RN, RD & SW



PDSA #1: ANnual Dlabetes Screening visit (ANDI)

 Outcome – increase in screening rate from 35-47% (Jan to May 2023) to 63-64% in June/July 2023

- Pitfalls
 - No shows summer months, visit, no telemedicine visits offered
 - Provider vacation
- Screening rate dropped back down to ~30% the two months following ANDI summer visits



Next Steps







Optimize annual screening visit process

Process to identify individuals not captured in the summer screening program

System for when social worker is not available



PDSA #2: Changes to ANDI workflow

- One week per month from July October
- Changed visit type to be scheduled under patient's usual provider
- Increased awareness of visit type by reminding patients when scheduled, placement of flyers in clinic rooms

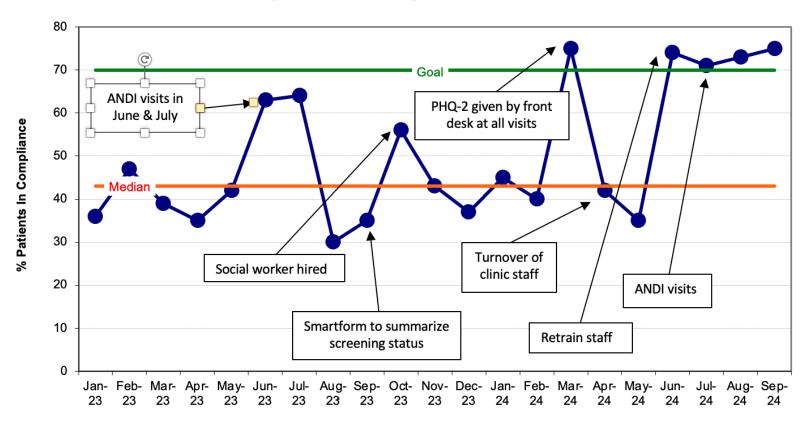


PDSA #2: Develop workflow outside of ANDI

- Full-time social worker hired, dedicated to peds endo clinic
- Smartform developed and added to diabetes note template
- Paper PHQ-2 provided by front desk staff at check-in for all diabetes visits
 - If score >3, social worker notified, provides patient PHQ-9



Rate of Depression Screening in Adolescents with T1D



Current Gaps in Screening

PHQ-2 not provided

- o Telemedicine visits
- Language barrier
- Neurodiverse & developmental delays

PHQ-2 not accurate

- oLiteracy concern
- o Parent filling out form
- ONot wanting to fill out with parent present

PHQ-2 data missing

- oForm lost
- ONot entered into EMR before provider/SW sees patient



Current Gaps in Screening

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PHQ-2 data missing

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- o Not entered into EMR before provider/SW sees patient



Conclusion/Future Considerations

- We were able to reach our goal of completing annual depression screening in >70% of adolescents with T1DM via annual screening visits and change to existing workflow
- Further investigation as to why the remainder of patients are still being missed
- Send PHQ-2 via MyChart
- Complete PHQ-2 on tablet to automatically upload into chart
- Rooming adolescents without parent present
- Continue to decrease stigma around mental health, remind patients/families about the association of mental health disorders and T1DM



UCDAVIS HEALTH

Thank you for your interest!

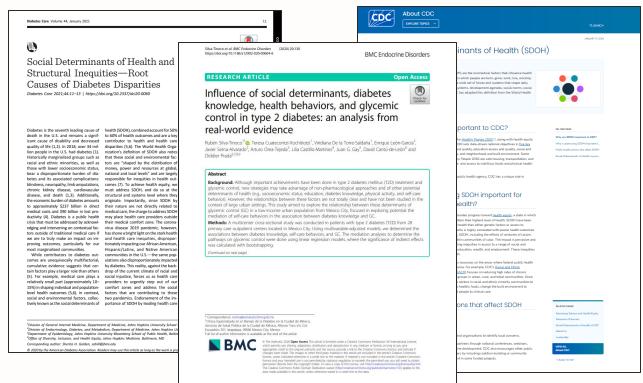
shjimenez@ucdavis.edu



Addressing Disparities in Diabetes Care: Implementing SDOH Screening at Diagnosis

November 11, 2024 | Lydia Holly, BSN, RN, Clinical Care Coordinator

Why Screen for SDOH?





Project Aim

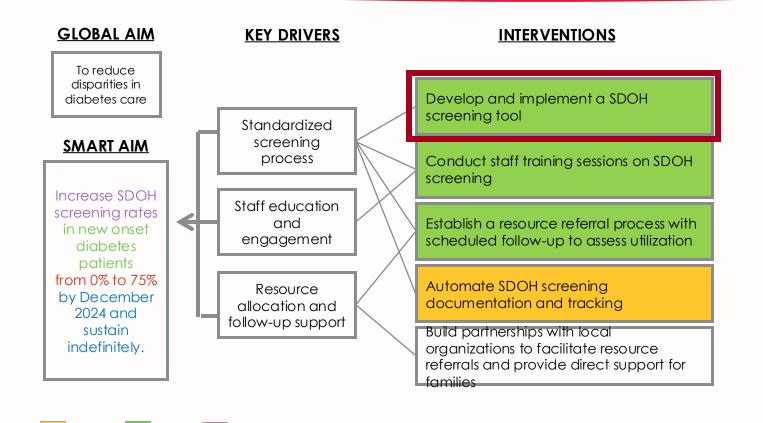
Increase social determinants of health (SDOH) screening rates

in new onset diabetes patients

from <u>0%</u> to <u>75%</u>

by December 2024 and sustain indefinitely.





In Progress

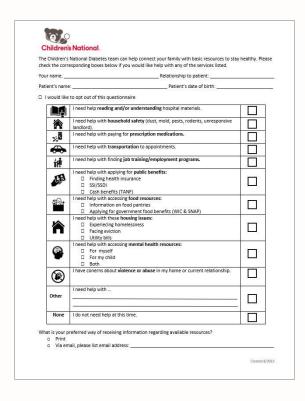
Finished

Paused

Not Started



Methods: Screening Domains



- Assesses 10 social determinants of health
 - Health literacy
 - Household safety
 - Housing
 - Financial (prescriptions)
 - Employment
 - Transportation
 - Public benefits
 - Food insecurity
 - Mental health
 - Domestic violence
- Available in English, Spanish, and Amharic

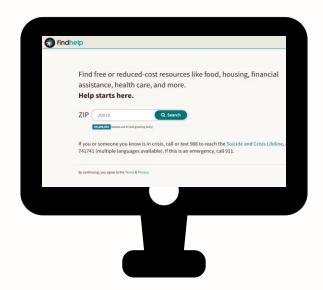


Methods: Inpatient Workflow



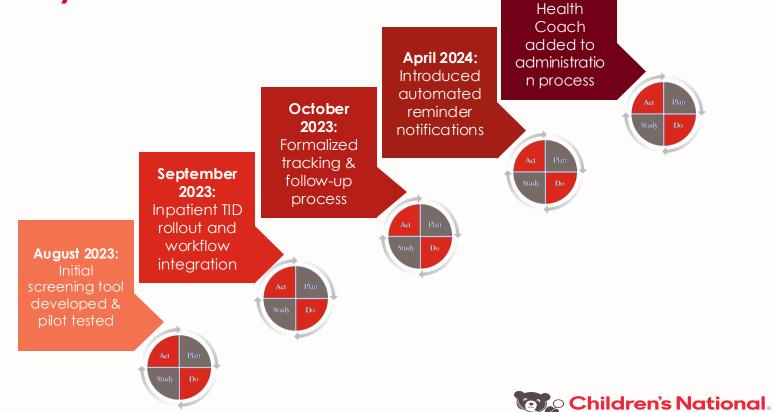
Methods: Resource Provision

- Families identifying barriers are connected with individualized resources
- The Diabetes Health Coach conducts a follow-up call to ensure effective utilization and provide ongoing assistance





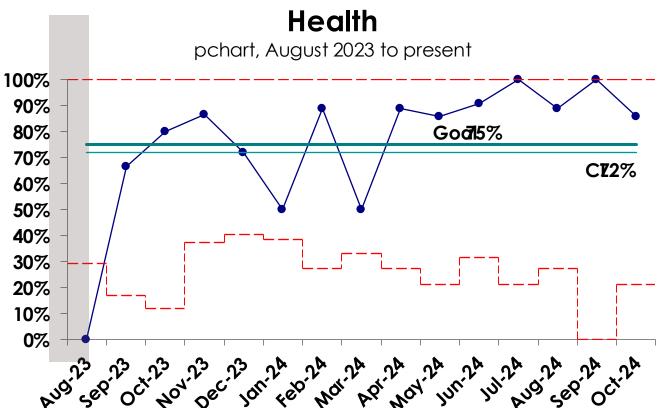
PDSA Cycle



July 2024:



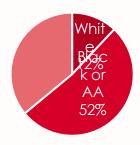
Percentage of Eligible Patients Screened for Social Determinants of

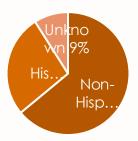


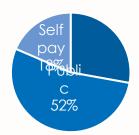
Understanding the Data: Key Demographics

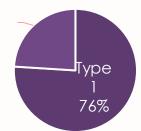


Of those who identified at least one SDOH barrier:



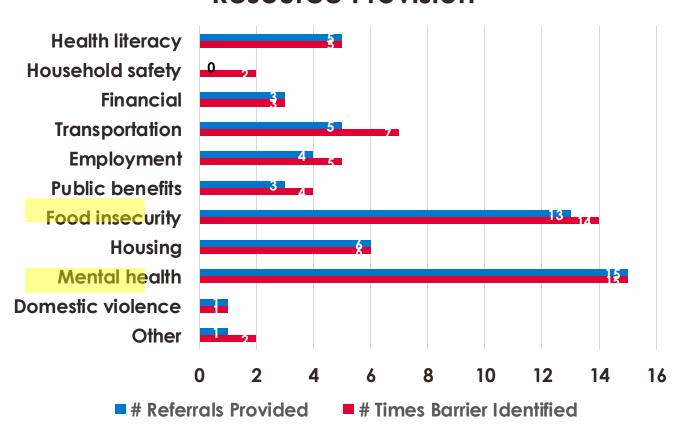








SDOH Barrier Identification & Resource Provision



Key Challenges & Insights

Challenges in implementation

Lessons Learned

Staffing and resource limitations

Workflow integration

- Engage the team
- Optimize where possible

- Start small
- Clearly define the process



Impact & Next Steps

- Informed care: newfound awareness of the barriers a family may be facing at home
- Identifying disparities: pinpoint which groups face more social barriers
- Prioritize resources: allocate resources effectively to high-need populations

Impact & Next Steps

Future directions

- Partnering with hospital leadership to expand screening to followup visits
- Evaluating SDOH impact on diabetes care outcome measures
- Collaborating with community partners to bolster resource networks



Thank You

